

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX032823\  
 Data File : VX034801.D  
 Acq On : 28 Mar 2023 18:23  
 Operator : JC/MD  
 Sample : 02109-04  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 EB-2023-03-26

Quant Time: Mar 29 04:05:40 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X031023W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Mar 13 10:29:32 2023  
 Response via : Initial Calibration

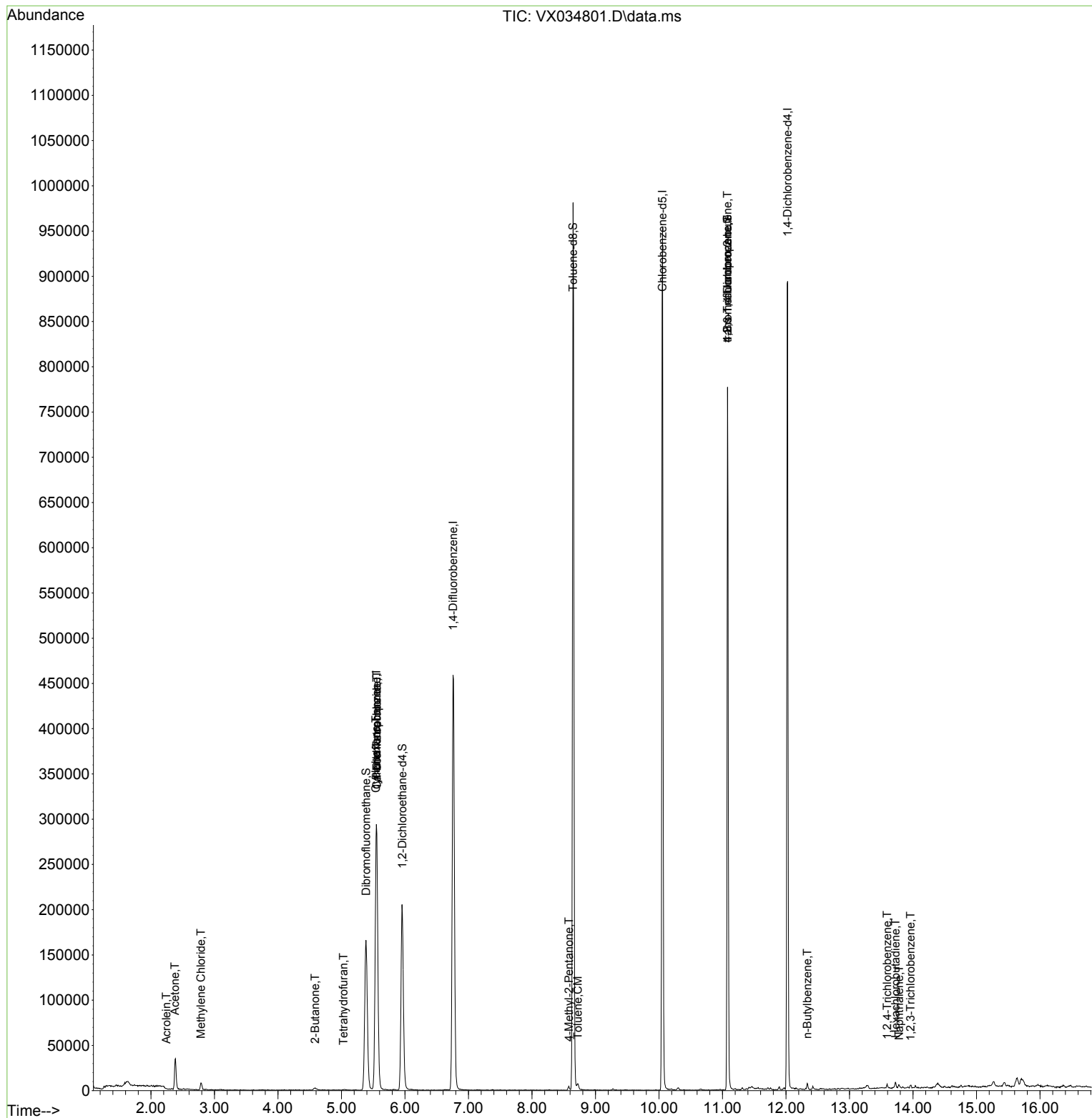
| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 5.550          | 168  | 274649     | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.757          | 114  | 462155     | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 408206     | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 184582     | 50.000    | ug/l   | 0.00     |
|                               |                |      |            |           |        |          |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958          | 65   | 191906     | 48.029    | ug/l   | 0.01     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = | 96.060%   |        |          |
| 35) Dibromofluoromethane      | 5.385          | 113  | 143695     | 47.092    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 94.180%   |        |          |
| 50) Toluene-d8                | 8.647          | 98   | 556883     | 48.888    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = | 97.780%   |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 199719     | 43.407    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 86.820%   |        |          |
|                               |                |      |            |           |        |          |
| Target Compounds              |                |      |            |           |        |          |
|                               |                |      |            |           | Qvalue |          |
| 3) Chloromethane              | 1.295          | 50   | 399        | Below Cal | #      | 72       |
| 13) Acrolein                  | 2.240          | 56   | 263        | 0.400     | ug/l # | 81       |
| 16) Acetone                   | 2.380          | 43   | 38583      | 20.500    | ug/l   | 95       |
| 20) Methylene Chloride        | 2.788          | 84   | 3479       | 0.952     | ug/l # | 93       |
| 25) 2-Butanone                | 4.587          | 43   | 4044       | 1.502     | ug/l # | 90       |
| 29) Tetrahydrofuran           | 5.032          | 42   | 347        | 0.209     | ug/l # | 60       |
| 31) Cyclohexane               | 5.544          | 56   | 6972       | 1.244     | ug/l # | 6        |
| 36) 1,1-Dichloropropene       | 5.556          | 75   | 22778      | 4.860     | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 5.556          | 117  | 28099      | 6.027     | ug/l # | 16       |
| 51) 4-Methyl-2-Pentanone      | 8.580          | 43   | 2954       | 0.587     | ug/l   | 97       |
| 52) Toluene                   | 8.720          | 92   | 1988       | 0.234     | ug/l   | 93       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 106404     | 25.106    | ug/l # | 34       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 106404     | 67.919    | ug/l # | 8        |
| 89) n-Butylbenzene            | 12.335         | 91   | 2446       | 0.222     | ug/l   | 98       |
| 93) 1,2,4-Trichlorobenzene    | 13.591         | 180  | 962        | 0.237     | ug/l # | 87       |
| 94) Hexachlorobutadiene       | 13.725         | 225  | 723        | 0.443     | ug/l   | 87       |
| 95) Naphthalene               | 13.780         | 128  | 2866       | 0.211     | ug/l   | 95       |
| 96) 1,2,3-Trichlorobenzene    | 13.963         | 180  | 958        | 0.242     | ug/l # | 74       |
| -----                         |                |      |            |           |        |          |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Mon Mar 13 10:29:32 2023  
Response via : Initial Calibration

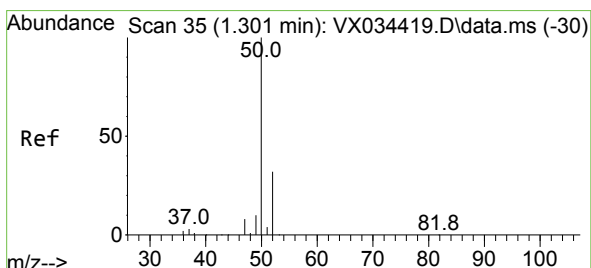
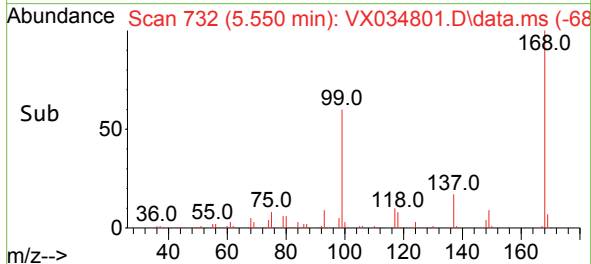
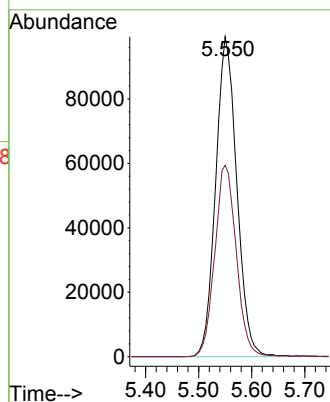
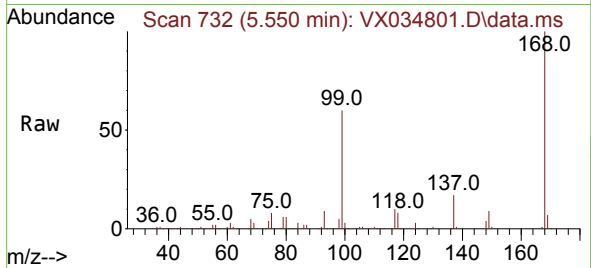




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX034801.D  
Acq: 28 Mar 2023 18:23

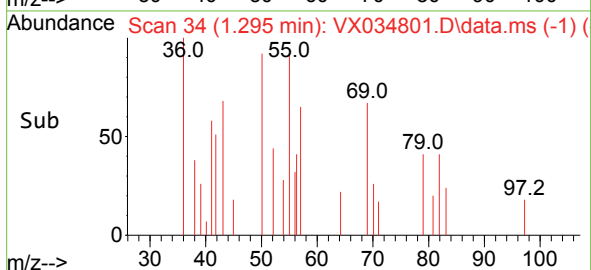
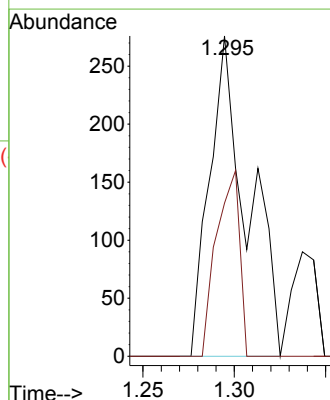
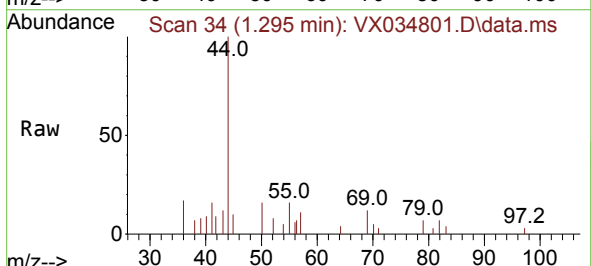
Instrument :  
MSVOA\_X  
ClientSampleId :  
EB-2023-03-26

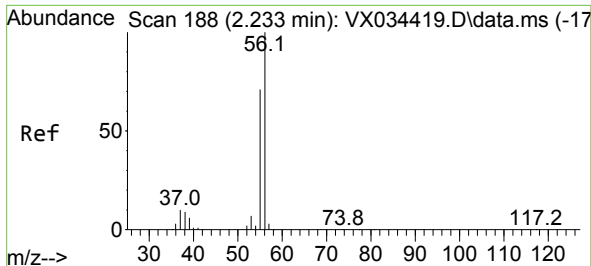
Tgt Ion:168 Resp: 274649  
Ion Ratio Lower Upper  
168 100  
99 59.9 45.7 68.5



#3  
Chloromethane  
Concen: Below Cal  
RT: 1.295 min Scan# 34  
Delta R.T. -0.006 min  
Lab File: VX034801.D  
Acq: 28 Mar 2023 18:23

Tgt Ion: 50 Resp: 399  
Ion Ratio Lower Upper  
50 100  
52 47.8 25.9 38.9#

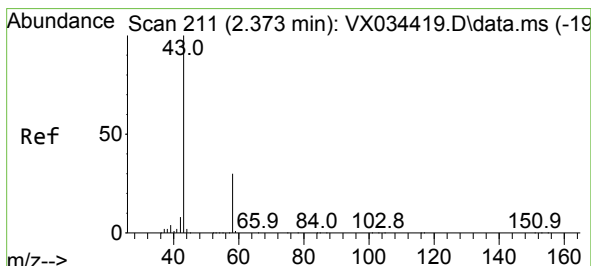
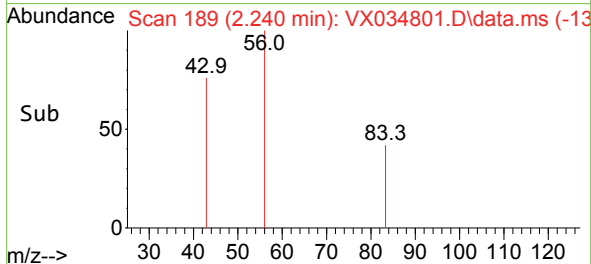
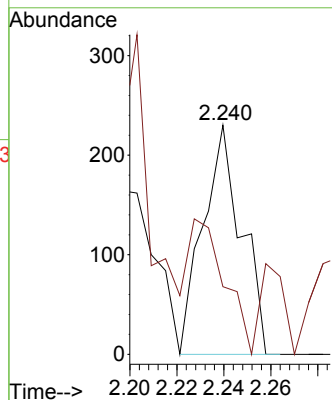
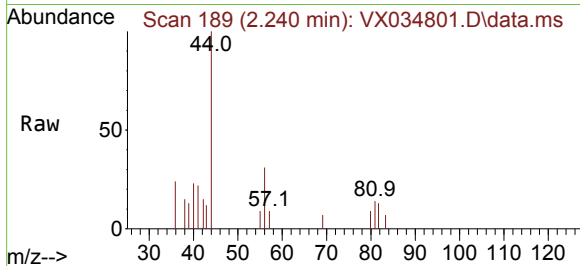




#13  
Acrolein  
Concen: 0.400 ug/l  
RT: 2.240 min Scan# 11  
Delta R.T. 0.007 min  
Lab File: VX034801.D  
Acq: 28 Mar 2023 18:23

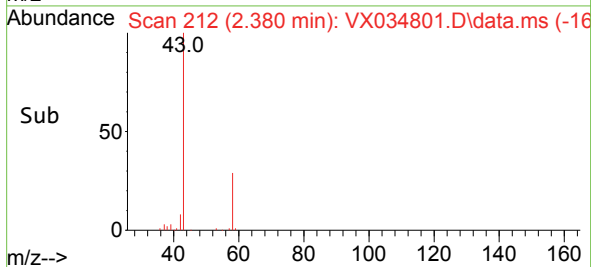
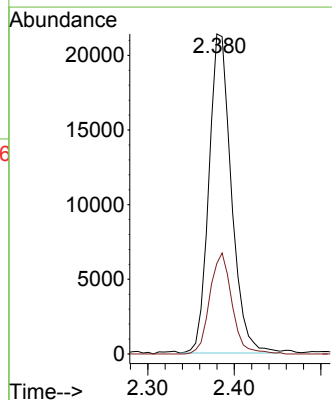
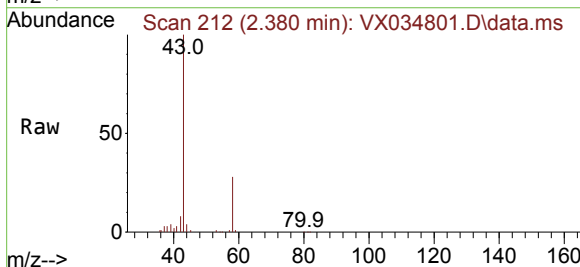
Instrument :  
MSVOA\_X  
ClientSampleId :  
EB-2023-03-26

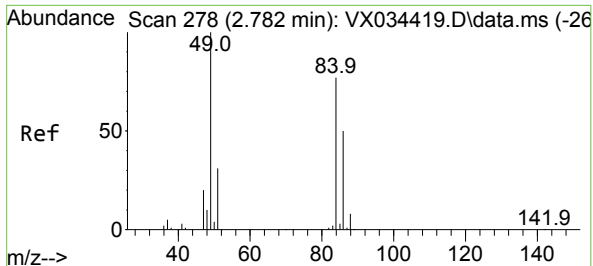
Tgt Ion: 56 Resp: 263  
Ion Ratio Lower Upper  
56 100  
55 54.8 56.6 85.0#



#16  
Acetone  
Concen: 20.500 ug/l  
RT: 2.380 min Scan# 212  
Delta R.T. 0.006 min  
Lab File: VX034801.D  
Acq: 28 Mar 2023 18:23

Tgt Ion: 43 Resp: 38583  
Ion Ratio Lower Upper  
43 100  
58 28.4 24.7 37.1

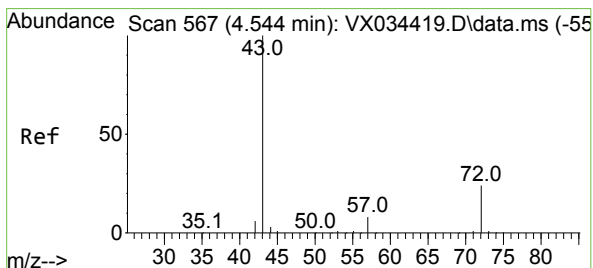
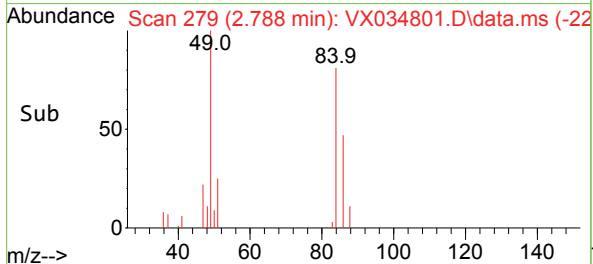
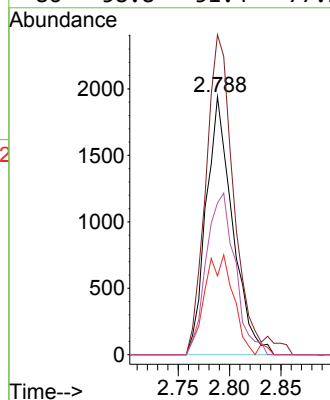
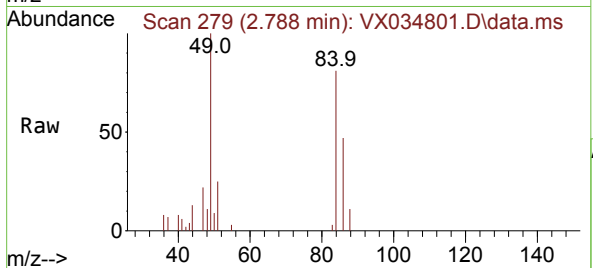




#20  
Methylene Chloride  
Concen: 0.952 ug/l  
RT: 2.788 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VX034801.D  
Acq: 28 Mar 2023 18:23

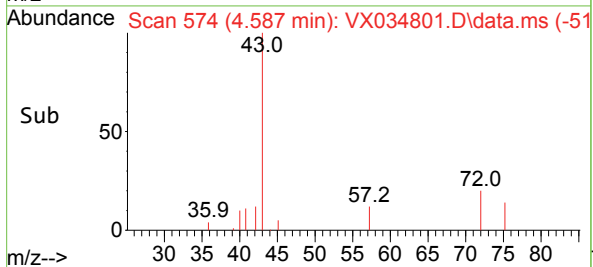
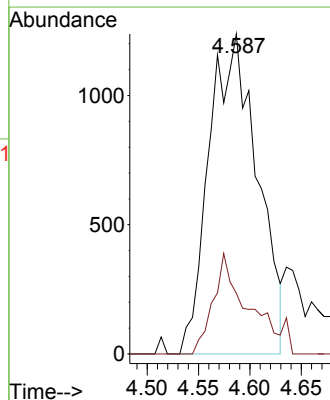
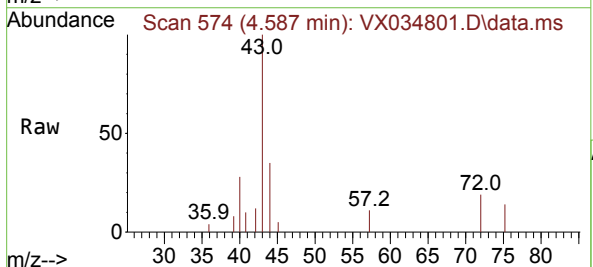
Instrument :  
MSVOA\_X  
ClientSampleId :  
EB-2023-03-26

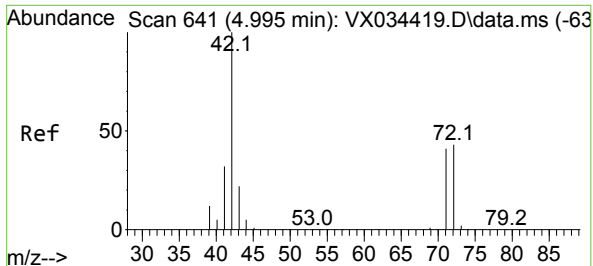
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 3479  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 124.1 | 103.8 | 155.8 |
| 51       | 30.5  | 31.8  | 47.8# |
| 86       | 58.8  | 51.4  | 77.2  |



#25  
2-Butanone  
Concen: 1.502 ug/l  
RT: 4.587 min Scan# 574  
Delta R.T. 0.043 min  
Lab File: VX034801.D  
Acq: 28 Mar 2023 18:23

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 4044  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 19.0  | 19.3  | 28.9# |





#29

Tetrahydrofuran

Concen: 0.209 ug/l

RT: 5.032 min Scan# 641

Delta R.T. 0.037 min

Lab File: VX034801.D

Acq: 28 Mar 2023 18:23

Instrument :

MSVOA\_X

ClientSampleId :

EB-2023-03-26

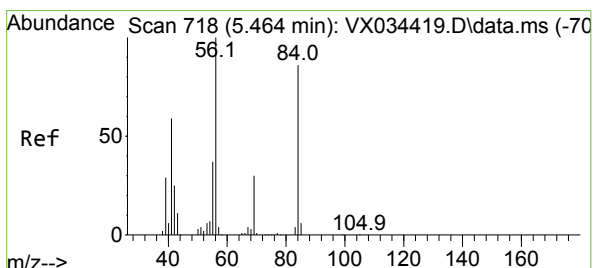
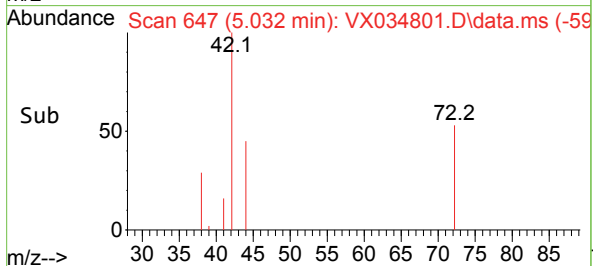
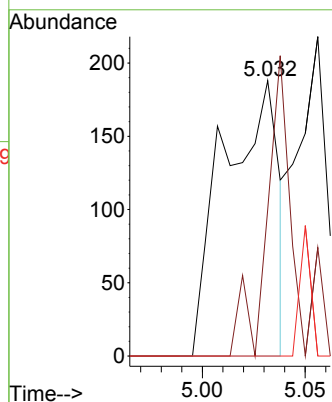
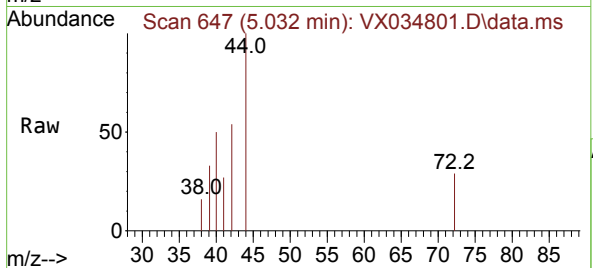
Tgt Ion: 42 Resp: 347

Ion Ratio Lower Upper

42 100

72 53.6 34.5 51.7#

71 0.0 32.1 48.1#



#31

Cyclohexane

Concen: 1.244 ug/l

RT: 5.544 min Scan# 731

Delta R.T. 0.079 min

Lab File: VX034801.D

Acq: 28 Mar 2023 18:23

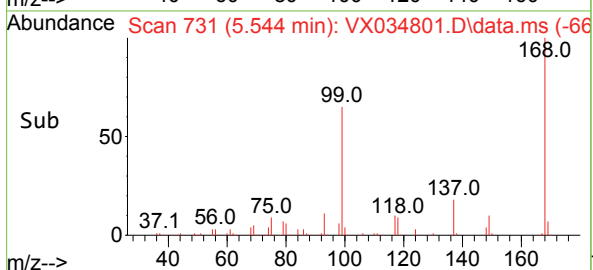
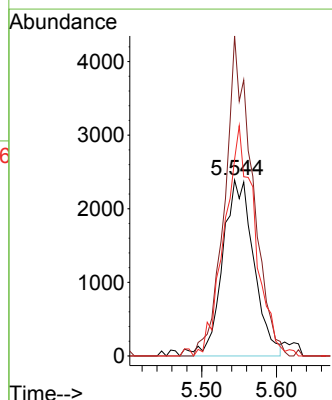
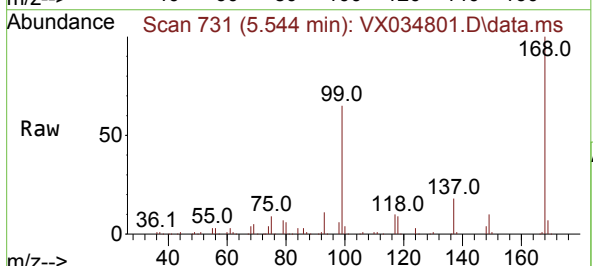
Tgt Ion: 56 Resp: 6972

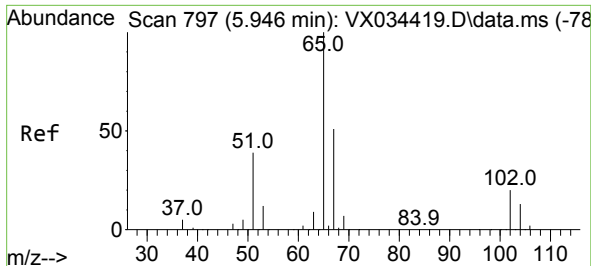
Ion Ratio Lower Upper

56 100

69 182.0 23.7 35.5#

84 111.8 68.5 102.7#





#33

1,2-Dichloroethane-d4

Concen: 48.029 ug/l

RT: 5.958 min Scan# 79

Delta R.T. 0.012 min

Lab File: VX034801.D

Acq: 28 Mar 2023 18:23

Instrument :

MSVOA\_X

ClientSampleId :

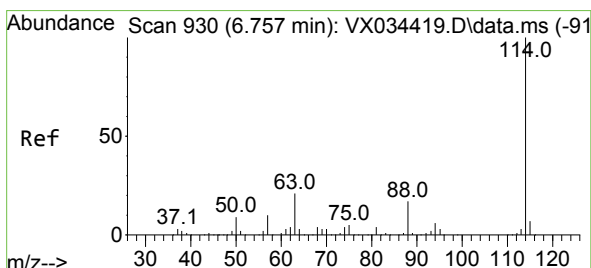
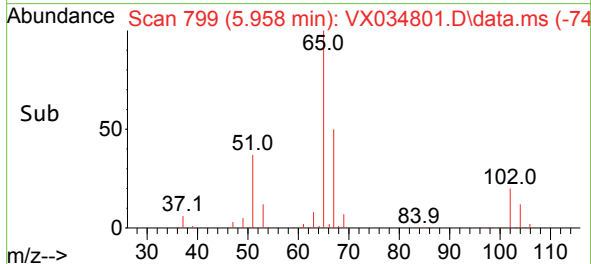
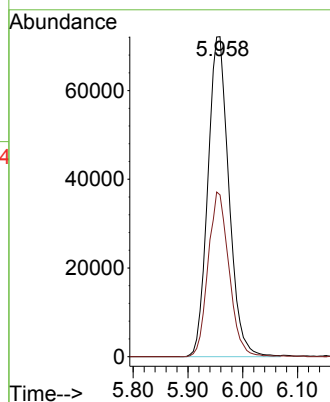
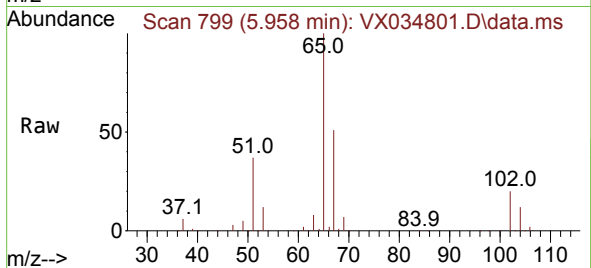
EB-2023-03-26

Tgt Ion: 65 Resp: 191906

Ion Ratio Lower Upper

65 100

67 51.3 0.0 104.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX034801.D

Acq: 28 Mar 2023 18:23

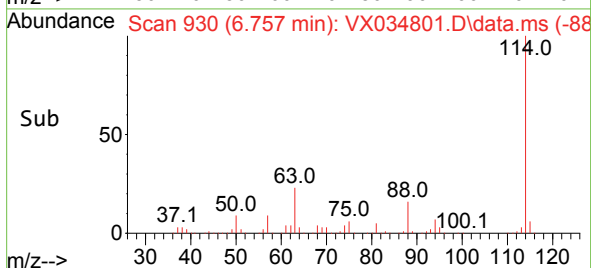
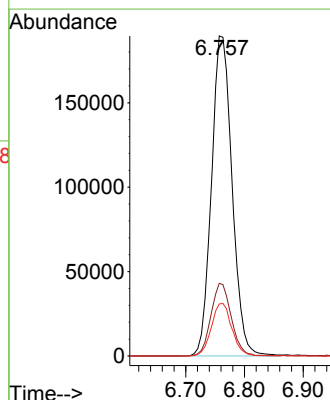
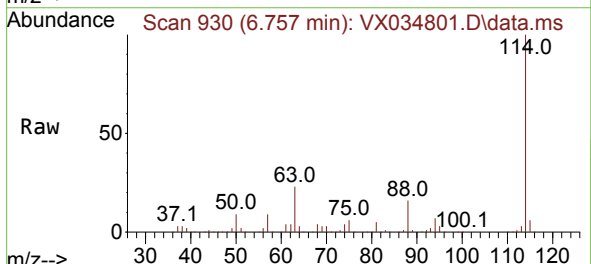
Tgt Ion: 114 Resp: 462155

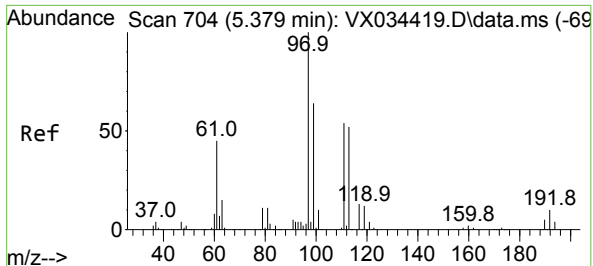
Ion Ratio Lower Upper

114 100

63 22.7 0.0 42.2

88 16.3 0.0 33.2

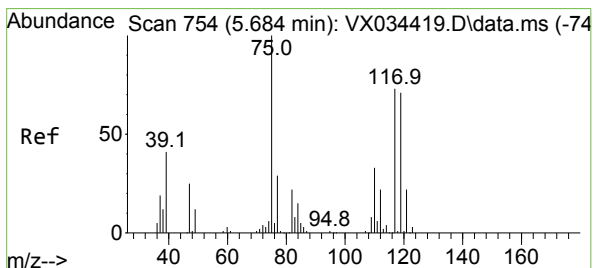
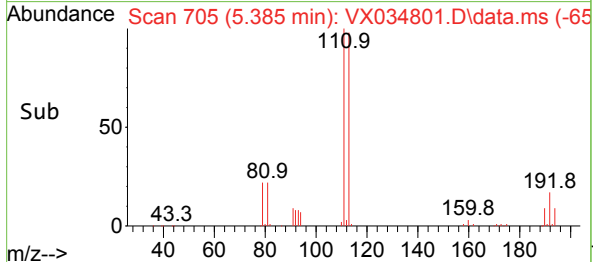
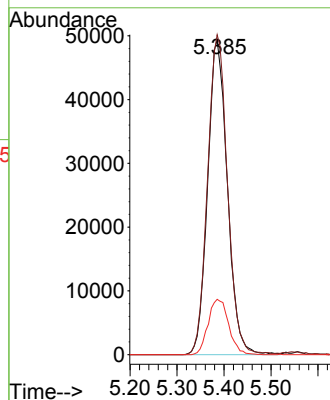
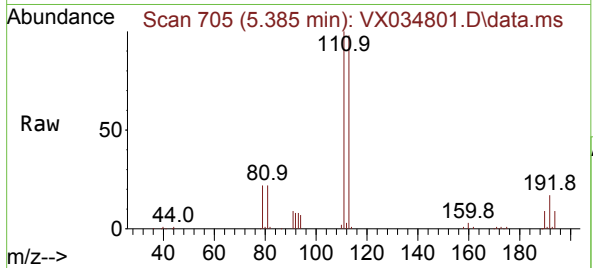




#35  
Dibromofluoromethane  
Concen: 47.092 ug/l  
RT: 5.385 min Scan# 704  
Delta R.T. 0.006 min  
Lab File: VX034801.D  
Acq: 28 Mar 2023 18:23

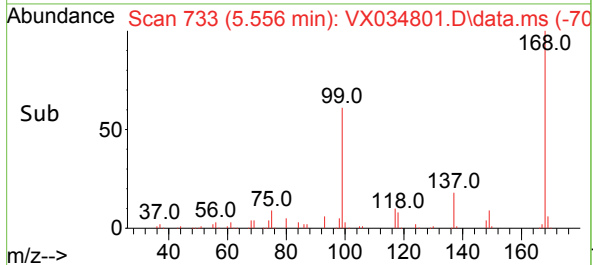
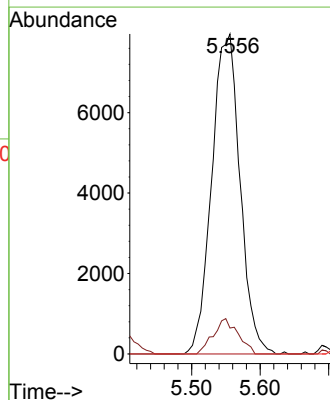
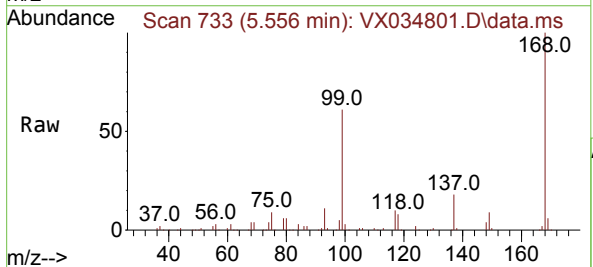
Instrument :  
MSVOA\_X  
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EB-2023-03-26

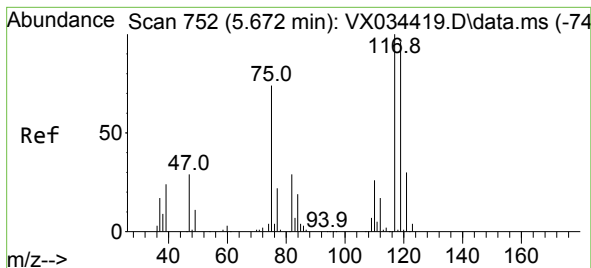
Tgt Ion:113 Resp: 143695  
Ion Ratio Lower Upper  
113 100  
111 102.8 83.7 125.5  
192 18.3 15.4 23.2



#36  
1,1-Dichloropropene  
Concen: 4.860 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. -0.128 min  
Lab File: VX034801.D  
Acq: 28 Mar 2023 18:23

Tgt Ion: 75 Resp: 22778  
Ion Ratio Lower Upper  
75 100  
110 9.6 17.5 52.5#  
77 0.0 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 6.027 ug/l

RT: 5.556 min Scan# 71

Delta R.T. -0.116 min

Lab File: VX034801.D

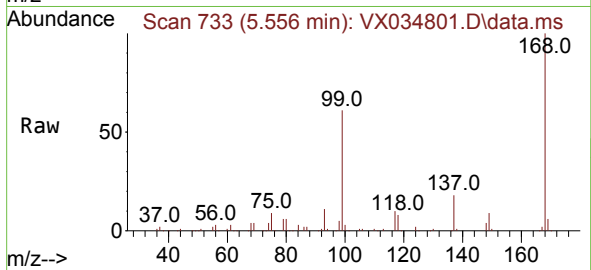
Acq: 28 Mar 2023 18:23

Instrument :

MSVOA\_X

ClientSampleId :

EB-2023-03-26



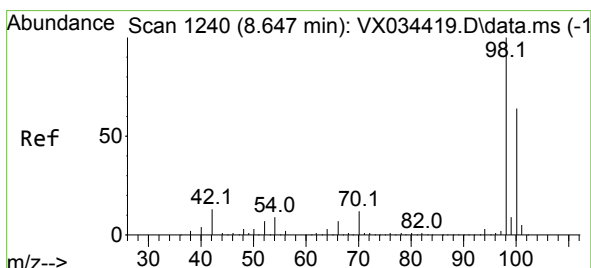
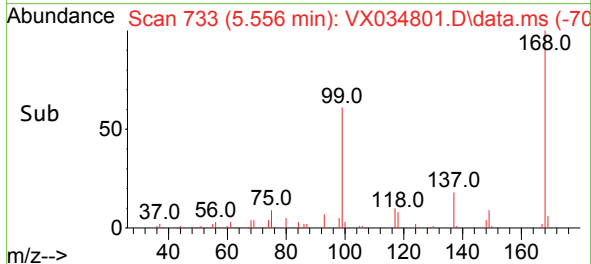
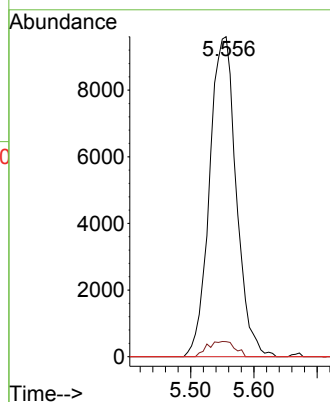
Tgt Ion:117 Resp: 28099

Ion Ratio Lower Upper

117 100

119 4.7 76.6 114.8#

121 0.0 23.8 35.6#



#50

Toluene-d8

Concen: 48.888 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX034801.D

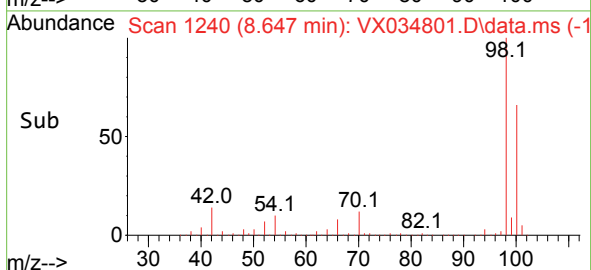
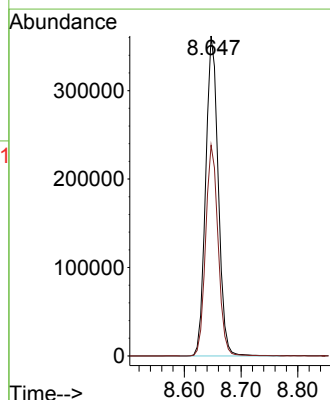
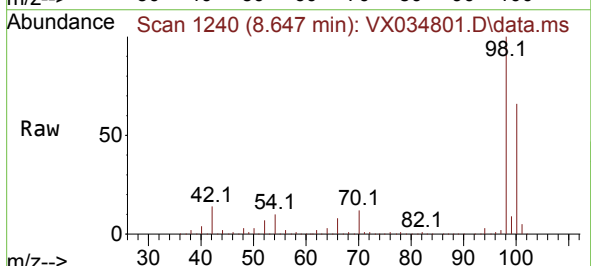
Acq: 28 Mar 2023 18:23

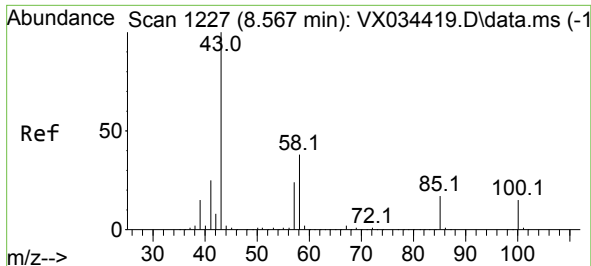
Tgt Ion: 98 Resp: 556883

Ion Ratio Lower Upper

98 100

100 65.4 52.5 78.7

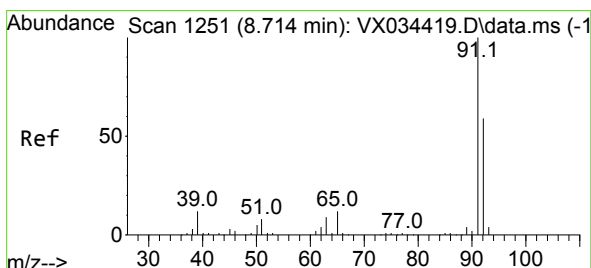
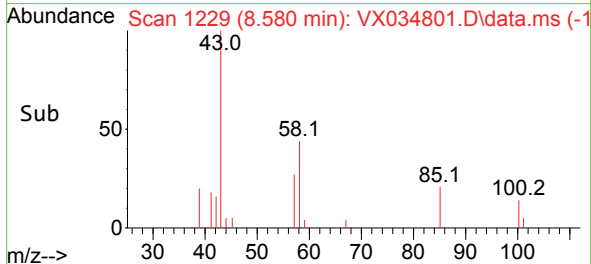
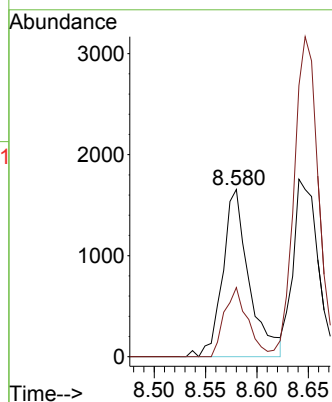
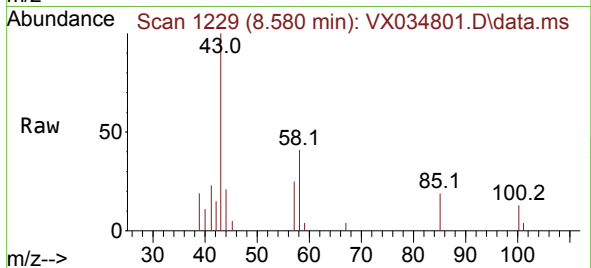




#51  
4-Methyl-2-Pentanone  
Concen: 0.587 ug/l  
RT: 8.580 min Scan# 1229  
Delta R.T. 0.012 min  
Lab File: VX034801.D  
Acq: 28 Mar 2023 18:23

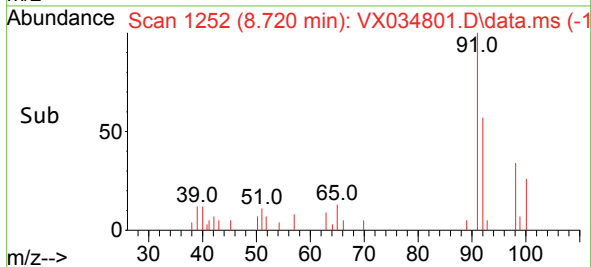
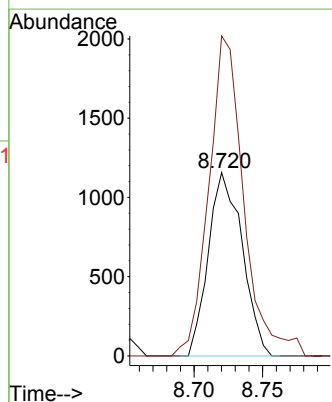
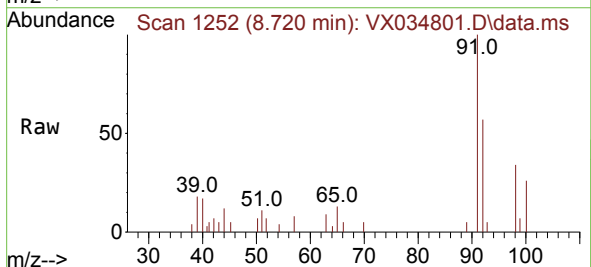
Instrument :  
MSVOA\_X  
ClientSampleId :  
EB-2023-03-26

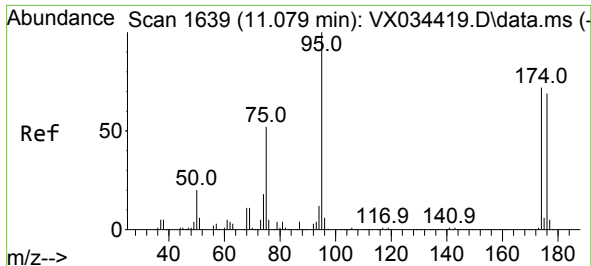
Tgt Ion: 43 Resp: 2954  
Ion Ratio Lower Upper  
43 100  
58 36.6 30.6 46.0



#52  
Toluene  
Concen: 0.234 ug/l  
RT: 8.720 min Scan# 1252  
Delta R.T. 0.006 min  
Lab File: VX034801.D  
Acq: 28 Mar 2023 18:23

Tgt Ion: 92 Resp: 1988  
Ion Ratio Lower Upper  
92 100  
91 180.1 136.8 205.2

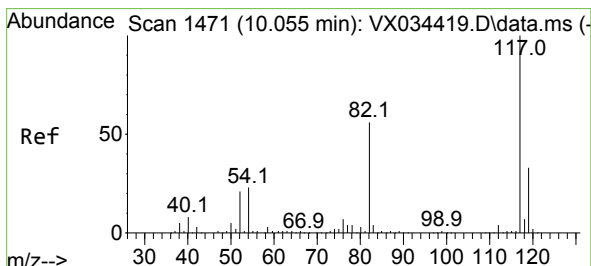
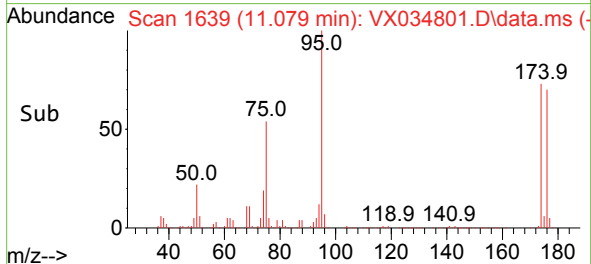
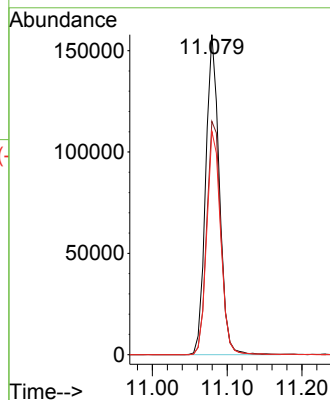
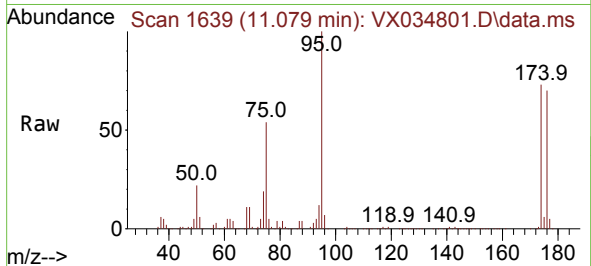




#62  
4-Bromofluorobenzene  
Concen: 43.407 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VX034801.D  
Acq: 28 Mar 2023 18:23

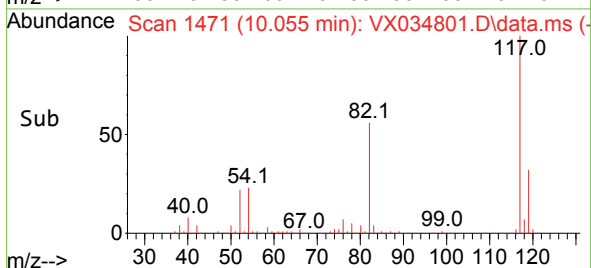
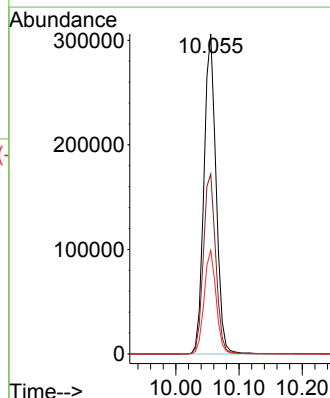
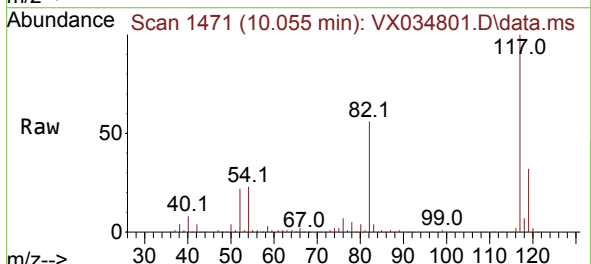
Instrument :  
MSVOA\_X  
ClientSampleId :  
EB-2023-03-26

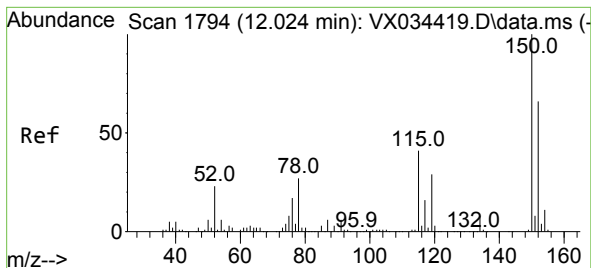
Tgt Ion: 95 Resp: 199719  
Ion Ratio Lower Upper  
95 100  
174 75.7 0.0 147.4  
176 71.2 0.0 140.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX034801.D  
Acq: 28 Mar 2023 18:23

Tgt Ion: 117 Resp: 408206  
Ion Ratio Lower Upper  
117 100  
82 56.3 45.0 67.4  
119 32.4 26.0 39.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX034801.D

Acq: 28 Mar 2023 18:23

Instrument :

MSVOA\_X

ClientSampleId :

EB-2023-03-26

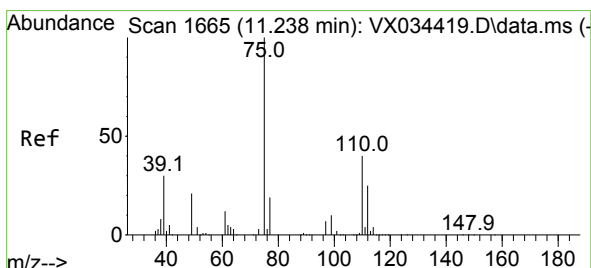
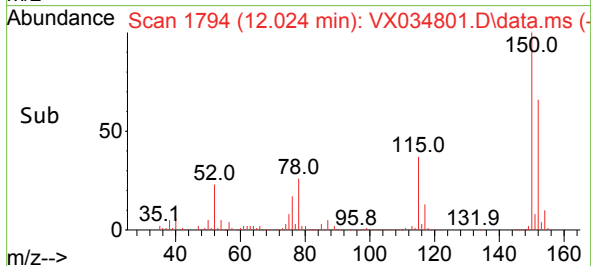
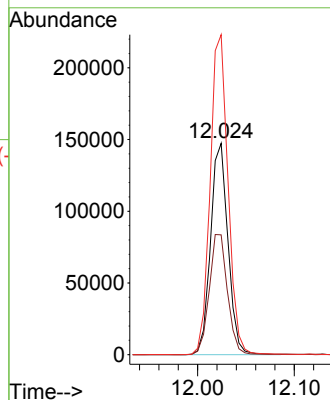
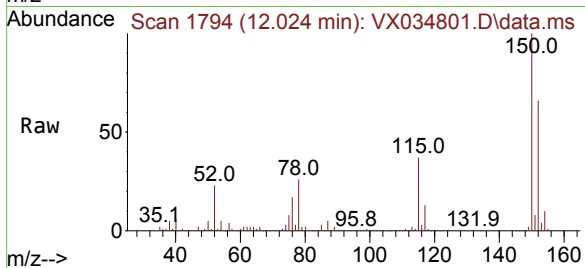
Tgt Ion:152 Resp: 184582

Ion Ratio Lower Upper

152 100

115 59.6 45.0 135.0

150 155.4 0.0 352.4



#76

1,2,3-Trichloropropane

Concen: 25.106 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX034801.D

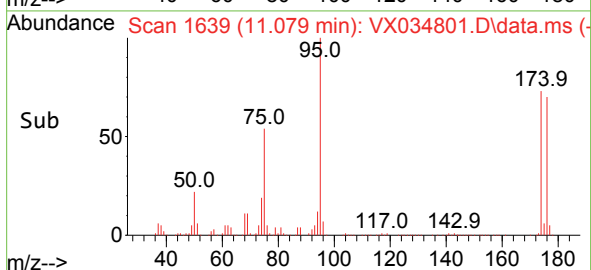
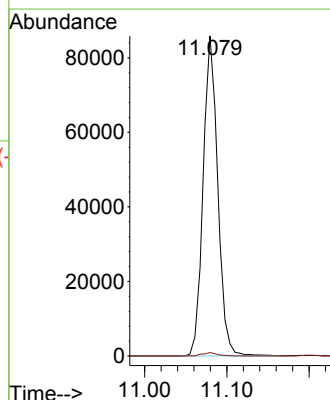
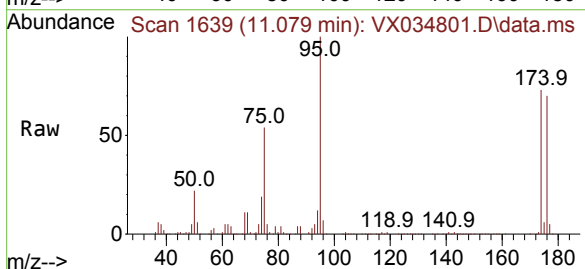
Acq: 28 Mar 2023 18:23

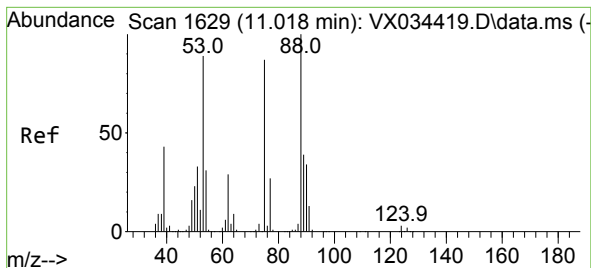
Tgt Ion: 75 Resp: 106404

Ion Ratio Lower Upper

75 100

77 1.1 21.6 64.8#

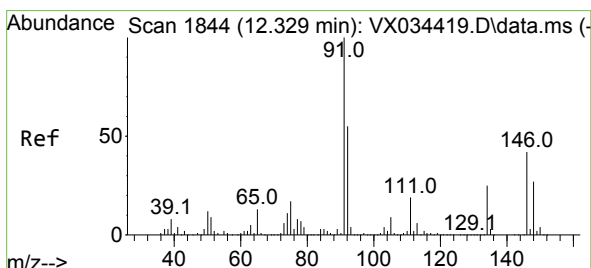
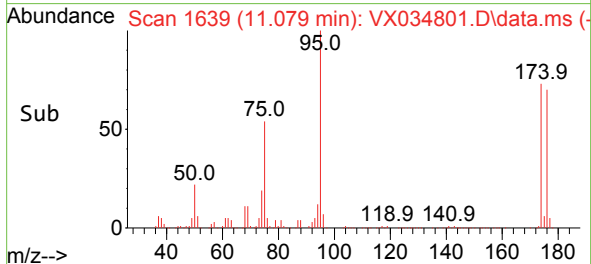
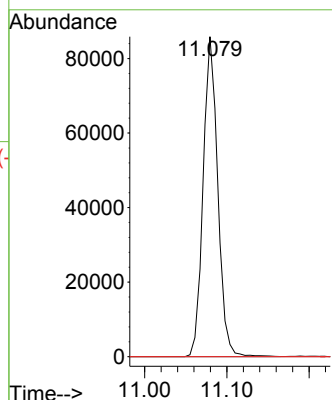
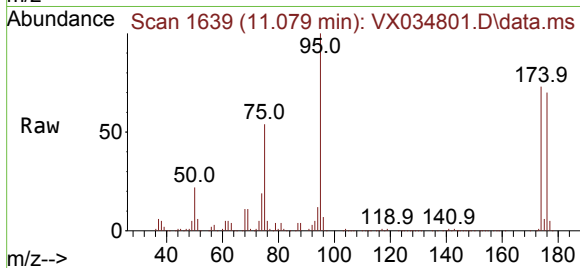




#81  
trans-1,4-Dichloro-2-butene  
Concen: 67.919 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX034801.D  
Acq: 28 Mar 2023 18:23

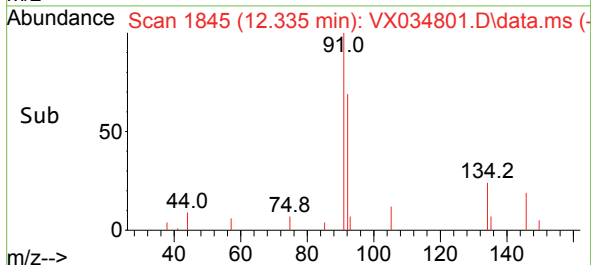
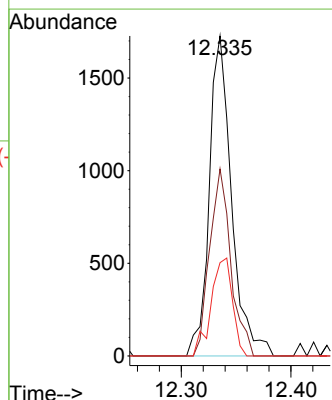
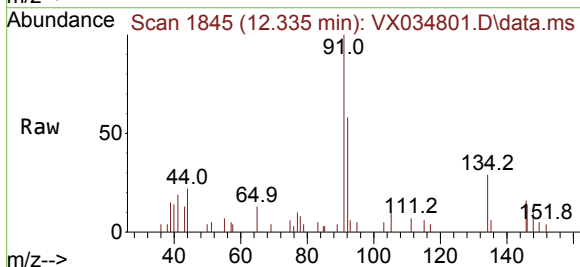
Instrument :  
MSVOA\_X  
ClientSampleId :  
EB-2023-03-26

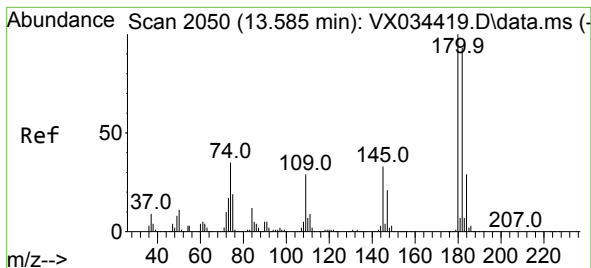
Tgt Ion: 75 Resp: 106404  
Ion Ratio Lower Upper  
75 100  
53 0.0 82.6 124.0#  
89 0.0 36.9 55.3#



#89  
n-Butylbenzene  
Concen: 0.222 ug/l  
RT: 12.335 min Scan# 1845  
Delta R.T. 0.006 min  
Lab File: VX034801.D  
Acq: 28 Mar 2023 18:23

Tgt Ion: 91 Resp: 2446  
Ion Ratio Lower Upper  
91 100  
92 55.4 27.7 83.0  
134 29.3 13.0 38.9





#93

1,2,4-Trichlorobenzene

Concen: 0.237 ug/l

RT: 13.591 min Scan# 2050

Delta R.T. 0.006 min

Lab File: VX034801.D

Acq: 28 Mar 2023 18:23

Instrument :

MSVOA\_X

ClientSampleId :

EB-2023-03-26

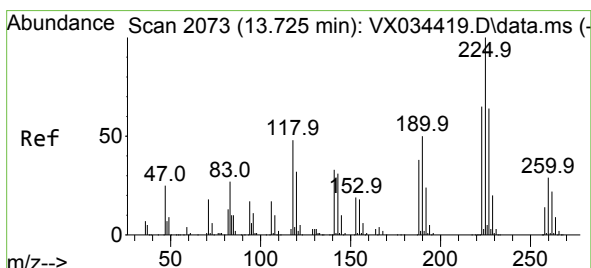
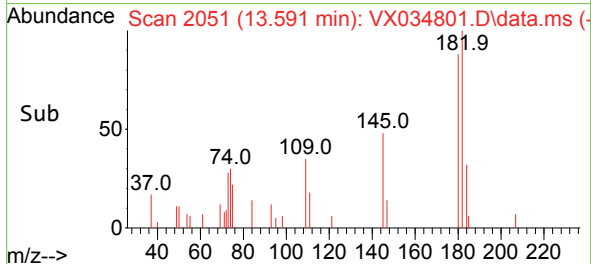
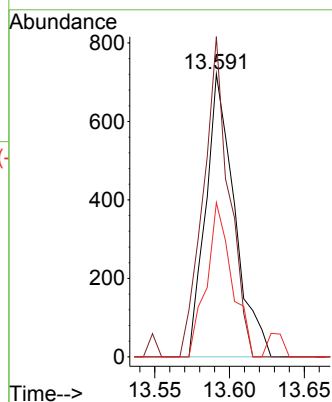
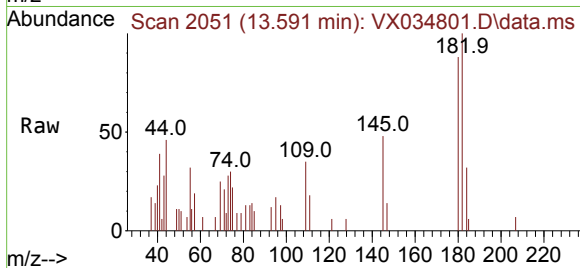
Tgt Ion:180 Resp: 962

Ion Ratio Lower Upper

180 100

182 101.2 47.0 141.0

145 48.0 15.9 47.7#



#94

Hexachlorobutadiene

Concen: 0.443 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. 0.000 min

Lab File: VX034801.D

Acq: 28 Mar 2023 18:23

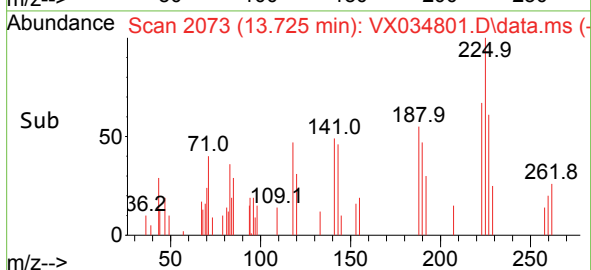
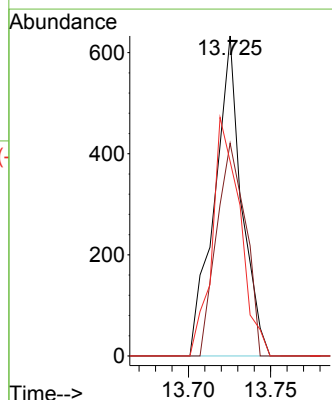
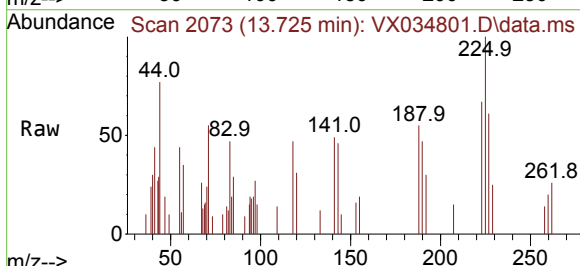
Tgt Ion:225 Resp: 723

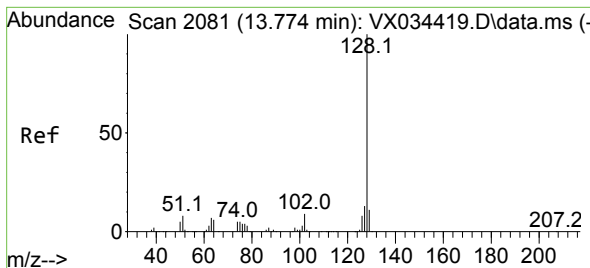
Ion Ratio Lower Upper

225 100

223 71.1 32.1 96.5

227 76.8 31.8 95.4





#95

Naphthalene

Concen: 0.211 ug/l

RT: 13.780 min Scan# 2081

Delta R.T. 0.006 min

Lab File: VX034801.D

Acq: 28 Mar 2023 18:23

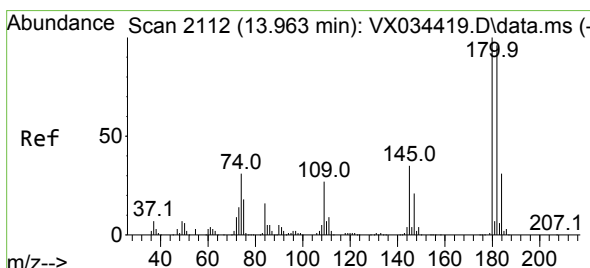
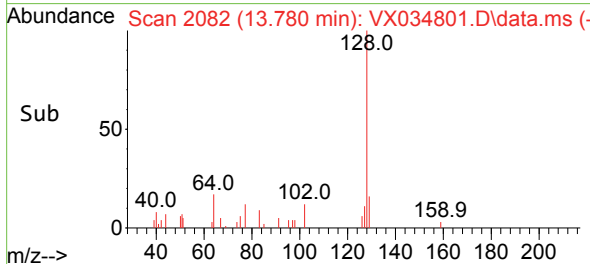
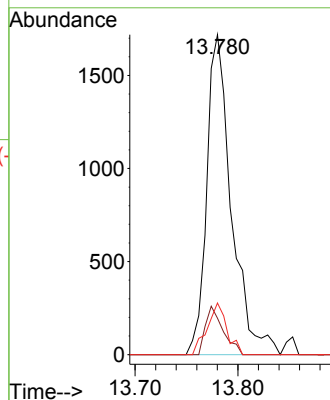
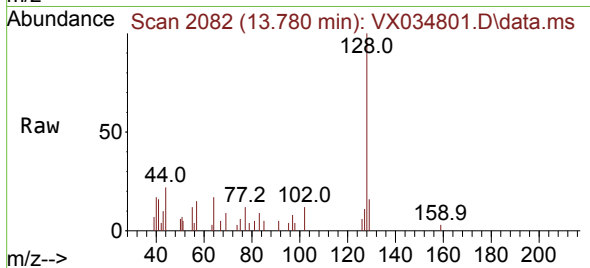
Instrument :

MSVOA\_X

ClientSampleId :

EB-2023-03-26

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:128 | Resp: | 2866      |
| Ion Ratio   | Lower | Upper     |
| 128         | 100   |           |
| 127         | 10.8  | 10.2 15.4 |
| 129         | 12.8  | 8.6 13.0  |



#96

1,2,3-Trichlorobenzene

Concen: 0.242 ug/l

RT: 13.963 min Scan# 2112

Delta R.T. 0.000 min

Lab File: VX034801.D

Acq: 28 Mar 2023 18:23

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 958        |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 72.2  | 48.0 144.2 |
| 145         | 53.2  | 17.7 53.1  |

